

# **FUND 402**

## **SEWER CONSTRUCTION IMPROVEMENTS**

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### ***Board of Supervisors' Adjustments***

***The following funding adjustments reflect all changes to the FY 2002 Advertised Budget Plan, as approved by the Board of Supervisors on April 30, 2001:***

- The Board of Supervisors made no changes to the FY 2002 Advertised Budget Plan.

***The following funding adjustments reflect all approved changes to the FY 2001 Revised Budget Plan from January 1, 2001 through April 23, 2001. Included are all adjustments made as part of the FY 2001 Third Quarter Review:***

- The Board of Supervisors made no adjustments to this fund.
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### ***County Executive Proposed FY 2002 Advertised Budget Plan***

#### **Purpose**

Fund 402, Sewer Construction Improvements, provides for the wastewater management construction projects and is funded by system revenues (e.g., Sewer Service Charges, Availability Fees, and Connection Fees) through a transfer of funds from Fund 400, Sewer Revenue. All projects in Fund 402 are supported by sewer system revenues and are included in the Summary of Capital Projects.

#### **FY 2002 Initiatives**

In FY 2002, an amount of \$53,902,809 is included in Fund 402, Sewer Construction Improvements to provide continued funding for seven projects.

Funding of \$4,927,809 is included for the payment to the District of Columbia Water and Sewer Authority (DCWASA) for the County's share of the project costs associated with the upgrade of the DC Blue Plains Wastewater Treatment Plant based on the construction schedule and DCWASA's projected expense summary.

Funding of \$2,900,000 for the Pump Station Renovations includes \$2,000,000 for the implementation of a Supervisory Control and Data Acquisition (SCADA) system for most sewage pumping stations in the County to remotely operate, monitor and control the pumping stations; \$500,000 will provide for the replacement of 160 sewage grinder pumps in the Lincoln-Lewis-Vannoy area and at several other locations throughout the County due to the failure rate and maintenance costs of these twenty-five year old pumps; \$300,000 for the rehabilitation of the Clifton pump and haul facility due to the increased maintenance cost of this thirty-year old facility, and \$100,000 for the construction of a flow diversion chamber along the Colvin Run trunk sewer at Difficult Run Pumping Station which will allow the pump station to be taken off-line without the influent sewer becoming clogged with grit and debris.

Funding of \$29,625,000 for Alexandria Sanitation Authority (ASA) Plant Improvements represents the County's share of construction costs to upgrade the ASA treatment plant and is based on ASA's projected expense summary.

An amount of \$50,000 for Integrated Sewer Metering will provide for the upgrade of existing sewer meters throughout the county.

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Funding of \$5,300,000 for the Sewer Replacement and Transmission Program will provide for repair, replacement, and renovation of aging sewer lines using predominantly "no dig" technologies, (i.e. fold and form, sliplining and instituform processes). This program is based on an aggressive measure to avoid expensive and reactionary maintenance costs such as sewer spills and sewer line breaks.

An amount of \$3,600,000 for Sewer Line Enlargement will complete the upgrade of 5,150 linear feet of the Pohick Sewer 60-inch Trunk line that is currently approaching capacity. Funding of \$3,100,000 was approved in FY 2001 for the initial design and preliminary study of the trunk line. The cost estimates are high for this project based on the depth of the trunk line that is over 26 feet deep.

Funding in the amount of \$7,500,000 for Replacement and Renewal - Treatment includes \$5,500,000 for the replacement of the filter presses at the Noman M. Cole Jr., Pollution Control Plant. The existing membrane filter press sludge dewatering facility was placed in operation in July 1991. Recently, the plant has experienced several maintenance and repair problems with the existing sludge dewatering facility. This has heightened the urgency for addressing these problems and concerns in a prompt manner. It should be noted that \$544,000 was added during the FY 2000 Carryover to support the design phase. In addition, funding of \$2,000,000 is needed for the replacement of 8 monomedia filter bottoms that have been in service for 23 years, and the bottoms have corroded and are beyond economical repair.

The agency will continue to hold a nitrification reserve in the amount of \$1,667,000 in Fund 400, Sewer Revenue, to provide funding for the County share of the design and construction expenses associated with the installation of a Biological Nutrient Removal (BNR) system at the Arlington Wastewater Treatment Plant. The retention of a nitrification reserve will provide the County with the ability to respond to State Water Control Board (SWCB) mandates for stricter phosphorus and nitrogen effluent permit standards.

## Funding Adjustments

*The following funding adjustments reflect all approved changes to the FY 2001 Revised Budget Plan since passage of the FY 2001 Adopted Budget Plan. Included are all adjustments made as part of the FY 2000 Carryover Review and all other approved changes through December 31, 2000:*

- ◆ As part of the FY 2000 Carryover Review, the Board of Supervisors approved an increase of \$106,195,096 including \$68,651,096 for the carryover of unexpended project balances, \$37,000,000 for the County's share of the construction costs for the treatment expansion of Alexandria Sanitation Authority based on their projected cash flow statements and \$544,000 to support the design phase of the replacement sludge dewatering system at the Noman M. Cole, Jr., Pollution Control Plant.

A Fund Statement, a Summary of Capital Projects and Project Detail Tables for each project funded in FY 2002 are provided on the following pages. The Summary of Capital Projects may include some projects without a Total Project Estimate amount. These projects are considered "continuing" projects or projects for which funding is necessary on an ongoing basis (e.g., a contingency or planning project). The Project Detail Tables include project location, description, source of funding, and completion schedules.

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### FUND STATEMENT

Fund Type G40, Enterprise Funds

Fund 402, Sewer Construction Improvements

|   | FY 2000<br>Actual    | FY 2001<br>Adopted<br>Budget Plan | FY 2001<br>Revised<br>Budget Plan | FY 2002<br>Advertised<br>Budget Plan | FY 2002<br>Adopted<br>Budget Plan |
|---|----------------------|-----------------------------------|-----------------------------------|--------------------------------------|-----------------------------------|
| <b>Beginning Balance</b>                      | <b>\$58,836,364</b>  | <b>\$0</b>                        | <b>\$68,655,788</b>               | <b>\$0</b>                           | <b>\$0</b>                        |
| Revenue:                                      |                      |                                   |                                   |                                      |                                   |
| Revenue from the<br>Commonwealth <sup>1</sup> | \$4,692              | \$0                               | \$0                               | \$0                                  | \$0                               |
| <b>Total Revenue</b>                          | <b>\$4,692</b>       | <b>\$0</b>                        | <b>\$0</b>                        | <b>\$0</b>                           | <b>\$0</b>                        |
| Transfer In:                                  |                      |                                   |                                   |                                      |                                   |
| Sewer Revenue (400)                           | \$58,775,000         | \$17,578,184                      | \$55,117,492                      | \$53,902,809                         | \$53,902,809                      |
| <b>Total Transfer In</b>                      | <b>\$58,775,000</b>  | <b>\$17,578,184</b>               | <b>\$55,117,492</b>               | <b>\$53,902,809</b>                  | <b>\$53,902,809</b>               |
| <b>Total Available</b>                        | <b>\$117,616,056</b> | <b>\$17,578,184</b>               | <b>\$123,773,280</b>              | <b>\$53,902,809</b>                  | <b>\$53,902,809</b>               |
| Total Expenditures                            | \$48,960,268         | \$17,578,184                      | \$123,773,280                     | \$53,902,809                         | \$53,902,809                      |
| <b>Total Disbursements</b>                    | <b>\$48,960,268</b>  | <b>\$17,578,184</b>               | <b>\$123,773,280</b>              | <b>\$53,902,809</b>                  | <b>\$53,902,809</b>               |
| <b>Ending Balance</b>                         | <b>\$68,655,788</b>  | <b>\$0</b>                        | <b>\$0</b>                        | <b>\$0</b>                           | <b>\$0</b>                        |

<sup>1</sup> An amount of \$4,692 represents unanticipated revenues from the Virginia Department of Transportation for the reimbursement of sewer line expenses.

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### FY 2002 Summary of Capital Projects

#### Fund: 402 Sewer Construction Improvements

| Project #    | Description                       | Total<br>Project<br>Estimate | FY 2000<br>Actual<br>Expenditures | FY 2001<br>Revised<br>Budget | FY 2002<br>Advertised<br>Budget Plan | FY 2002<br>Adopted<br>Budget Plan |
|--------------|-----------------------------------|------------------------------|-----------------------------------|------------------------------|--------------------------------------|-----------------------------------|
| G00901       | DC Treatment Center - Blue Plains | \$61,891,342                 | \$678,063.00                      | \$5,355,599.58               | \$4,927,809                          | \$4,927,809                       |
| G00903       | Arlington Wastewater Treatment    | 10,457,392                   | 1,304,085.00                      | 1,797,844.00                 | 0                                    | 0                                 |
| I00351       | Pump Station Renovations          |                              | 398,045.68                        | 4,380,114.97                 | 2,900,000                            | 2,900,000                         |
| I00355       | Pump And Haul - Wylie/Gunston     | 2,900,000                    | 1,345,199.39                      | 608,755.81                   | 0                                    | 0                                 |
| I00904       | ASA Wastewater Treatment Plant    | 178,466,723                  | 33,598,143.44                     | 56,883,836.21                | 29,625,000                           | 29,625,000                        |
| I00905       | Bell Haven Replacement            | 1,491,742                    | 85,456.76                         | 1,262,506.98                 | 0                                    | 0                                 |
| L00117       | Dogue Creek Rehab/Replacement     | 1,711,456                    | 1,264.36                          | 203,677.74                   | 0                                    | 0                                 |
| N00321       | Lower Potomac Exp 54 MGD          | 105,269,000                  | 3,098,857.71                      | 24,609,618.36                | 0                                    | 0                                 |
| T00124       | Rocky Run Pump Station            | 2,535,926                    | 123,045.87                        | 2,412,880.13                 | 0                                    | 0                                 |
| X00445       | Integrated Sewer Metering         |                              | 25,612.90                         | 146,906.20                   | 50,000                               | 50,000                            |
| X00823       | Extension Projects FY1993         | 3,779,003                    | 23,261.44                         | 1,404,193.79                 | 0                                    | 0                                 |
| X00824       | Extension Projects FY1994         | 1,258,000                    | 91,251.99                         | 257,489.49                   | 0                                    | 0                                 |
| X00825       | Extension Projects FY1995         | 3,049,001                    | 116,764.33                        | 383,904.52                   | 0                                    | 0                                 |
| X00826       | Extension Project FY1996          | 6,537,349                    | 246,151.09                        | 3,667,069.24                 | 0                                    | 0                                 |
| X00900       | Replacement Transmission          |                              | 0.00                              | 759,576.00                   | 0                                    | 0                                 |
| X00905       | Replacemt & Transmission          |                              | 5,637,917.87                      | 10,002,255.98                | 5,300,000                            | 5,300,000                         |
| X00906       | Sewer Line Enlargement            |                              | 19,572.85                         | 3,179,873.56                 | 3,600,000                            | 3,600,000                         |
| X00908       | Sewer Line Replacement - 5 Inch   |                              | 0.00                              | 136,920.04                   | 0                                    | 0                                 |
| X00910       | Replacement and Renewal           |                              | 89,600.00                         | 3,448,323.00                 | 7,500,000                            | 7,500,000                         |
| X00930       | Sewer Relocation - VADOT          |                              | 18,949.07                         | 327,169.76                   | 0                                    | 0                                 |
| X00935       | Rt. 50/66 Sewer Agreement Reserve | 1,000,000                    | 0.00                              | 1,000,000.00                 | 0                                    | 0                                 |
| X00940       | Developer Projects County Costs   |                              | 169.55                            | 162,956.59                   | 0                                    | 0                                 |
| X00942       | Accotink PS Rehabilitation        | 2,838,883                    | 2,058,855.52                      | 743,550.12                   | 0                                    | 0                                 |
| X00998       | Sewer Contingency Project         | 0                            | 0.00                              | 585,685.83                   | 0                                    | 0                                 |
| X00999       | Sewer Revolving Fund              |                              | 0.00                              | 52,572.00                    | 0                                    | 0                                 |
| <b>Total</b> |                                   | <b>\$383,185,817</b>         | <b>\$48,960,267.82</b>            | <b>\$123,773,279.90</b>      | <b>\$53,902,809</b>                  | <b>\$53,902,809</b>               |

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## SEWER CONSTRUCTION IMPROVEMENTS

|  |                                 |
|--|---------------------------------|
| <b>G00901</b>  | <b>DC Treatment Blue Plains</b> |
| Countywide   | Countywide                      |
| <p>This project is for the payment to the District of Columbia Water and Sewer Authority (DCWASA) for Fairfax County's share of the projected costs associated with the upgrade to DC Blue Plains Wastewater Treatment Plant. The County pays for approximately 8.4 percent of the total costs for the design and construction of the upgrade for nitrification and sludge handling facilities. Fairfax County's estimated share of the project cost is \$61,891,342 over a six-year period. Funding of \$4,927,809 provides for the County's FY 2002 share based on DCWASA's projected expense summary and construction schedule.</p> |                                 |

|                             | Total<br>Project<br>Estimate | Prior<br>Expenditures | FY 2000<br>Expenditures | FY 2001<br>Revised<br>Budget Plan | FY 2002<br>Advertised<br>Budget Plan | FY 2002<br>Adopted<br>Budget Plan | Future<br>Years     |
|-----------------------------|------------------------------|-----------------------|-------------------------|-----------------------------------|--------------------------------------|-----------------------------------|---------------------|
| Land Acquisition            | \$0                          | \$0                   | \$0                     | \$0                               | \$0                                  | \$0                               | \$0                 |
| Design and Engineering      | 0                            | 0                     | 0                       | 0                                 | 0                                    | 0                                 | 0                   |
| Construction                | 5,355,600                    | 0                     | 0                       | 5,355,600                         | 0                                    | 0                                 | 0                   |
| Interjurisdictional Payment | 56,535,742                   | 20,875,517            | 678,063                 | 0                                 | 4,927,809                            | 4,927,809                         | 30,054,353          |
| <b>Total</b>                | <b>\$61,891,342</b>          | <b>\$20,875,517</b>   | <b>\$678,063</b>        | <b>\$5,355,600</b>                | <b>\$4,927,809</b>                   | <b>\$4,927,809</b>                | <b>\$30,054,353</b> |

| Source of Funding |                          |                            |               |               |
|-------------------|--------------------------|----------------------------|---------------|---------------|
| General Fund      | General Obligation Bonds | Transfers from Other Funds | Sewer Revenue | Total Funding |
| \$0               | \$0                      | \$0                        | \$4,927,809   | \$4,927,809   |

| Completion Schedule         |                                   |                        |                             |                         |
|-----------------------------|-----------------------------------|------------------------|-----------------------------|-------------------------|
| Land Acquisition Completion | Engineer/Architect Contract Award | Design Completion      | Construction Contract Award | Construction Completion |
| First Quarter FY 2000       | Fourth Quarter FY 2000            | Fourth Quarter FY 2000 | Various                     | Fourth Quarter FY 2005  |

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|  |                                 |
|--|---------------------------------|
| <b>I00351</b>  | <b>Pump Station Renovations</b> |
| Countywide   | Countywide                      |
| <p>This project provides for the renovation of the existing pumping stations within the Wastewater Management Program. FY 2002 funding in the amount of \$2,900,000 includes \$500,000 for the replacement of 160 sewage grinder pumps primarily in the Lincoln-Lewis-Vannoy area; \$300,000 for the rehabilitation of the Clifton pump and haul system; and \$100,000 for the construction of a flow diversion chamber along the Colvin Run trunk sewer line at the Difficult Run pump station. In addition, \$2,000,000 provides for the construction of the Supervisory Control and Data Acquisition (SCADA) system to remotely operate, monitor and control the 62 pumping stations throughout the County from one location.</p> |                                 |

|                        | Total<br>Project<br>Estimate | Prior<br>Expenditures | FY 2000<br>Expenditures | FY 2001<br>Revised<br>Budget Plan | FY 2002<br>Advertised<br>Budget Plan | FY 2002<br>Adopted<br>Budget Plan | Future<br>Years |
|------------------------|------------------------------|-----------------------|-------------------------|-----------------------------------|--------------------------------------|-----------------------------------|-----------------|
| Land Acquisition       |                              | \$5,556               | \$0                     | \$0                               | \$0                                  | \$0                               | \$0             |
| Design and Engineering |                              | 1,844,806             | 210,218                 | 415,100                           | 0                                    | 0                                 | 0               |
| Construction           |                              | 4,300,076             | 156,833                 | 3,865,015                         | 2,900,000                            | 2,900,000                         | 0               |
| Other                  |                              | 117,790               | 30,995                  | 100,000                           | 0                                    | 0                                 | 0               |
| Total                  | Continuing                   | \$6,268,227           | \$398,046               | \$4,380,115                       | <b>\$2,900,000</b>                   | <b>\$2,900,000</b>                | \$0             |

| Source of Funding |                          |                            |               |               |
|-------------------|--------------------------|----------------------------|---------------|---------------|
| General Fund      | General Obligation Bonds | Transfers from Other Funds | Sewer Revenue | Total Funding |
| \$0               | \$0                      | \$0                        | \$2,900,000   | \$2,900,000   |

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## SEWER CONSTRUCTION IMPROVEMENTS

|   |                               |
|---|-------------------------------|
| <b>I00904</b>   | <b>ASA Plant Improvements</b> |
| ASA Sewer Shed  | Various                       |
| <p>This project funds the payment to the Alexandria Sanitation Authority for Fairfax County's share of the construction costs associated with the improvements to the Alexandria Wastewater Treatment Plant. The County pays for approximately sixty percent of the total costs of the upgrade for ammonia removal. Funding of \$29,625,000 provides for the County's FY 2002 share based on the projected expense summary. The project has completed the design phase and construction is scheduled for completion in FY 2003. It is anticipated that a loan application for Virginia Resource Authority (VRA) funding will be approved in the Spring of 2001 to support the County's future payments.</p> |                               |

|                        | Total<br>Project<br>Estimate | Prior<br>Expenditures | FY 2000<br>Expenditures | FY 2001<br>Revised<br>Budget Plan | FY 2002<br>Advertised<br>Budget Plan | FY 2002<br>Adopted<br>Budget Plan | Future<br>Years     |
|------------------------|------------------------------|-----------------------|-------------------------|-----------------------------------|--------------------------------------|-----------------------------------|---------------------|
| Land Acquisition       | \$0                          | \$0                   | \$0                     | \$0                               | \$0                                  | \$0                               | \$0                 |
| Design and Engineering | 0                            | 0                     | 0                       | 0                                 | 0                                    | 0                                 | 0                   |
| Construction           | 87,059,723                   | 550,887               | 0                       | 56,883,836                        | 29,625,000                           | 29,625,000                        | 0                   |
| Other                  | 91,407,000                   | 22,554,032            | 33,598,143              | 0                                 | 0                                    | 0                                 | 35,254,825          |
| <b>Total</b>           | <b>\$178,466,723</b>         | <b>\$23,104,919</b>   | <b>\$33,598,143</b>     | <b>\$56,883,836</b>               | <b>\$29,625,000</b>                  | <b>\$29,625,000</b>               | <b>\$35,254,825</b> |

| Source of Funding |                          |                            |               |               |
|-------------------|--------------------------|----------------------------|---------------|---------------|
| General Fund      | General Obligation Bonds | Transfers from Other Funds | Sewer Revenue | Total Funding |
| \$0               | \$0                      | \$0                        | \$29,625,000  | \$29,625,000  |

| Completion Schedule         |                                   |                          |                             |                           |
|-----------------------------|-----------------------------------|--------------------------|-----------------------------|---------------------------|
| Land Acquisition Completion | Engineer/Architect Contract Award | Design Completion        | Construction Contract Award | Construction Completion   |
| N/A                         | First Quarter<br>FY 2000          | First Quarter<br>FY 2000 | First Quarter<br>FY 2001    | Fourth Quarter<br>FY 2003 |

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|  |                                  |
|--|----------------------------------|
| <b>X00445</b>  | <b>Integrated Sewer Metering</b> |
| Countywide   | Countywide                       |
| <p>This project funds the Wastewater Management's metering program. Flows must be monitored to: 1) determine when the lines are nearing maximum capacity, 2) detect groundwater inflow/infiltration, 3) allow proper billing under interjurisdictional agreements for sewage treatment, and 4) comply with the Virginia Water Control Board regulations requiring metering at all trunk sewer junctions. FY 2002 funding of \$50,000 will provide for the upgrade of existing meters based on the agency's replacement metering schedules.</p> |                                  |

|                        | Total<br>Project<br>Estimate | Prior<br>Expenditures | FY 2000<br>Expenditures | FY 2001<br>Revised<br>Budget Plan | FY 2002<br>Advertised<br>Budget Plan | FY 2002<br>Adopted<br>Budget Plan | Future<br>Years |
|------------------------|------------------------------|-----------------------|-------------------------|-----------------------------------|--------------------------------------|-----------------------------------|-----------------|
| Land Acquisition       |                              | \$0                   | \$0                     | \$0                               | \$0                                  | \$0                               | \$0             |
| Design and Engineering |                              | 36,830                | 0                       | 0                                 | 0                                    | 0                                 | 0               |
| Construction           |                              | 63,464                | 0                       | 96,906                            | 0                                    | 0                                 | 0               |
| Other                  |                              | 1,491,636             | 25,613                  | 50,000                            | 50,000                               | 50,000                            | 0               |
| Total                  | Continuing                   | \$1,591,930           | \$25,613                | \$146,906                         | <b>\$50,000</b>                      | <b>\$50,000</b>                   | \$0             |

| Source of Funding |                          |                            |               |               |
|-------------------|--------------------------|----------------------------|---------------|---------------|
| General Fund      | General Obligation Bonds | Transfers from Other Funds | Sewer Revenue | Total Funding |
| \$0               | \$0                      | \$0                        | \$50,000      | \$50,000      |



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|   |   |
|---|---|
| <b>X00905</b>   | <b>Sewer Replacement and Transmission Program</b> |
| Countywide  | Countywide  |
| <p>This is a continuing project established to implement systematic rehabilitation of the County's more than 3,000 miles of sanitary sewer lines. Rehabilitation options include techniques/products such as slip-lining, instituform, and fold and form. This work is performed by outside contractors. This project completed 20.8 miles of sewer lines in FY 1999, 20 miles of sewer lines in FY 2000, and anticipates 20 miles in FY 2001. Funding in the amount of \$5,300,000 is included for the recurring repair, replacement and renovation of approximately 20 miles of sewer lines using predominantly "no dig" technologies in FY 2002.</p> |   |

|                        | Total<br>Project<br>Estimate | Prior<br>Expenditures | FY 2000<br>Expenditures | FY 2001<br>Revised<br>Budget Plan | FY 2002<br>Advertised<br>Budget Plan | FY 2002<br>Adopted<br>Budget Plan | Future<br>Years |
|------------------------|------------------------------|-----------------------|-------------------------|-----------------------------------|--------------------------------------|-----------------------------------|-----------------|
| Land Acquisition       |                              | \$121,217             | \$1,026                 | \$1,000                           | \$0                                  | \$0                               | \$0             |
| Design and Engineering |                              | 1,355,864             | 117,729                 | 621,700                           | 0                                    | 0                                 | 0               |
| Construction           |                              | 38,847,939            | 5,519,162               | 9,379,556                         | 5,300,000                            | 5,300,000                         | 0               |
| Other                  |                              | 183,880               | 0                       | 0                                 | 0                                    | 0                                 | 0               |
| <b>Total</b>           | Continuing                   | <b>\$40,508,899</b>   | <b>\$5,637,918</b>      | <b>\$10,002,256</b>               | <b>\$5,300,000</b>                   | <b>\$5,300,000</b>                | <b>\$0</b>      |

| Source of Funding |                          |                            |               |               |
|-------------------|--------------------------|----------------------------|---------------|---------------|
| General Fund      | General Obligation Bonds | Transfers from Other Funds | Sewer Revenue | Total Funding |
| \$0               | \$0                      | \$0                        | \$5,300,000   | \$5,300,000   |

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## SEWER CONSTRUCTION IMPROVEMENTS

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|  |                               |
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| <b>X00906</b>  | <b>Sewer Line Enlargement</b> |
| Countywide   | Countywide                    |
| <p>This project funds the design and construction of the replacement of undersized sewer lines or lines that have reached capacity. Due to its long-term nature, this project is ongoing and funded as inadequate sewer lines are identified. FY 2002 funding of \$3,600,000 is required to complete the replacement of the Pohick Sewer Trunk line that is 60 inches in diameter and approximately 5,150 linear feet. This line is nearing capacity and needs to be replaced.</p> |                               |

|                        | Total<br>Project<br>Estimate | Prior<br>Expenditures | FY 2000<br>Expenditures | FY 2001<br>Revised<br>Budget Plan | FY 2002<br>Advertised<br>Budget Plan | FY 2002<br>Adopted<br>Budget Plan | Future<br>Years |
|------------------------|------------------------------|-----------------------|-------------------------|-----------------------------------|--------------------------------------|-----------------------------------|-----------------|
| Land Acquisition       |                              | \$0                   | \$0                     | \$0                               | \$0                                  | \$0                               | \$0             |
| Design and Engineering |                              | 335,037               | 19,573                  | 5,000                             | 0                                    | 0                                 | 0               |
| Construction           |                              | 1,465,725             | 0                       | 3,170,874                         | 3,600,000                            | 3,600,000                         | 0               |
| Other                  |                              | 27,026                | 0                       | 4,000                             | 0                                    | 0                                 | 0               |
| Total                  | Continuing                   | \$1,827,788           | \$19,573                | \$3,179,874                       | <b>\$3,600,000</b>                   | <b>\$3,600,000</b>                | \$0             |

| Source of Funding |                          |                            |               |               |
|-------------------|--------------------------|----------------------------|---------------|---------------|
| General Fund      | General Obligation Bonds | Transfers from Other Funds | Sewer Revenue | Total Funding |
| \$0               | \$0                      | \$0                        | \$3,600,000   | \$3,600,000   |

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## SEWER CONSTRUCTION IMPROVEMENTS

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|  |  |
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| <b>X00910</b>  | <b>Replacement &amp; Renewal - Treatment</b> |
| Countywide   | Countywide                                   |
| <p>This project funds the replacement, rehabilitation, and renewal of County-owned and operated treatment facilities that are beyond the routine maintenance of the treatment facilities. FY 2002 funding includes \$5,500,000 for the replacement of the filter presses at the Noman M. Cole Jr., Pollution Control Plant due to the excessive repairs/replacement of this aging equipment. In addition, \$2,000,000 is required to replace 8 monomedia filter bottoms, which have been in service for twenty-three years and have corroded beyond economic repair.</p> |  |

|                           | Total<br>Project<br>Estimate | Prior<br>Expenditures | FY 2000<br>Expenditures | FY 2001<br>Revised<br>Budget Plan | FY 2002<br>Advertised<br>Budget Plan | FY 2002<br>Adopted<br>Budget Plan | Future<br>Years |
|---------------------------|------------------------------|-----------------------|-------------------------|-----------------------------------|--------------------------------------|-----------------------------------|-----------------|
| Land                      |                              |                       |                         |                                   |                                      |                                   |                 |
| Acquisition               |                              | \$0                   | \$0                     | \$0                               | \$0                                  | \$0                               | \$0             |
| Design and<br>Engineering |                              | 335,241               | 0                       | 544,000                           | 0                                    | 0                                 | 0               |
| Construction              |                              | 3,753,445             | 0                       | 2,802,323                         | 7,500,000                            | 7,500,000                         | 0               |
| Other                     |                              | 79,045                | 89,600                  | 102,000                           | 0                                    | 0                                 | 0               |
| Total                     | Continuing                   | \$4,167,731           | \$89,600                | \$3,448,323                       | <b>\$7,500,000</b>                   | <b>\$7,500,000</b>                | \$0             |

| Source of Funding |                             |                               |                  |                  |
|-------------------|-----------------------------|-------------------------------|------------------|------------------|
| General<br>Fund   | General Obligation<br>Bonds | Transfers from<br>Other Funds | Sewer<br>Revenue | Total<br>Funding |
| \$0               | \$0                         | \$0                           | \$7,500,000      | \$7,500,000      |